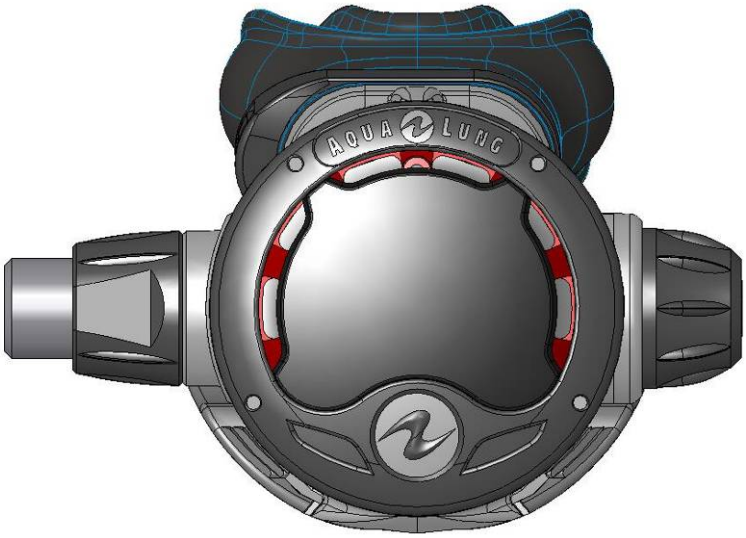
AQUA LUNG®

SERVICE MANUAL



MIKRON
SECOND STAGE

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Ref : Service Manual - Mikron 2nd Stage Rev. 07/2008

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Revision	Revision description
Rev. 07/08	Modification of the torque of the following parts 127824, 127833 and 127846. The new torque is equal to 0.5 N.m

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INTRODUCTION

This manual gives the instructions and the recommendations for the disassembly, the cleaning, the checking, the reassembly and the adjustment of an Aqua Lung regulator.
This manual is not an instruction manual for unqualified personnel. The procedures described in this manual are intended only for qualified personnel who have been trained in the servicing of Aqua Lung equipment during a specialised course.
If you do not understand certain procedures in this manual you should contact an Aqua Lung service consultant before undertaking any operation.

WARNINGS, ATTENTION, NOTES

Certain icons have been used to facilitate the reading and understanding of this manual. They have the following meanings :

WARNING: Indicates situations that could result in serious or fatal accidents if the advice given is not followed correctly.

. .

ATTENTION: Indicates a situation or action that could cause serious damage to the product, making it dangerous if the advice given is not followed correctly.

NOTE : Notes are used to emphasize important points as well as information which needs to be remembered.

MAINTENANCE

ATTENTION: Whatever the number of dives carried out during a year, the regulator should receive a complete service each year. If the regulator is used in a chlorinated or aggressive environment the service period should be reduced to six months.

In order to conform with the Aqua Lung Regulator Lifetime Guarantee, all servicing (inspection, servicing and repairs) should be recorded in the Service Record incorporated in the regulator User Manual.

GENERAL INSTRUCTIONS

1. In order to carry out the procedures described in this manual correctly it is important that you follow the steps in the exact order indicated. Read the manual through completely so that you become familiar with all the procedures, the special tools and the replacement parts, before starting to disassemble the product. Keep this manual open near to you so that you can refer to it step by step. Do not rely on your memory.

2. All servicing and repair procedures should be carried out in a workshop that is clean, well lit, easy to access and specially fitted for the purpose.

3. The regulator body should never be directly held in the jaws of a vice. To hold the body, screw the tool 006230 into the HP port and then grip the tool with the vice.

4. Once the regulator has been disassembled, the re-usable components should be separated from the components that need to be replaced. Fragile items with seats or crowns with critical sealing surfaces should be separated and protected during servicing in order to prevent any damage.

5. Use only spare parts from Aqua Lung service kits. Never replace an Aqua Lung part with one from another manufacturer, even if it appears similar.

6. Never re-use regulator parts which should be replaced on the pretext that the regulator has seen little use since its manufacture or since its last service.

7. When reassembling, check that the torque used conforms with that shown in Table 4, Torque. Some parts can be irretrievably damaged if the acceptable torque is exceeded.

GENERAL CONVENTIONS

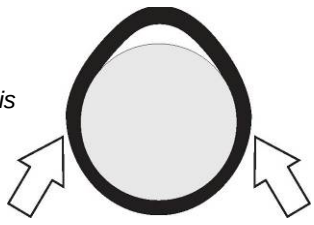
The conventions described below define the actions to be carried out when an instruction is given.

1. **Unscrew**: to unscrew a threaded part, turn it anti-clockwise.

2. **Screw**: to screw a threaded part, turn it clockwise.

3. **Remove the O-ring**: To remove an O-ring follow the method below, using the special tool provided for this purpose. Any tool that could damage the O-ring should be avoided. In every case, replace the O-ring removed with a new one.

Press simultaneously on the two sides of the O-ring in order to form an 'eye'. . Insert the special tool into this eye to remove the O-ring.



4. The acronyms used:
   LP: Low Pressure
   MP: Medium Pressure
   HP: High Pressure

5. Numbers in brackets indicate the part number of the component shown on the exploded view attached.

DISASSEMBLY PROCEDURE

***Note**: Before commencing disassembly, consult the exploded view to check the reference numbers of all parts requiring replacement. These parts should all be replaced by new parts and should not be re-used on the pretext that the regulator has seen little use since its manufacture or since its last service.*

***Attention**: Use only the special tool when removing O-rings in order to avoid damaging the seal recess. The slightest scratch on a sealing surface could cause a leak. If a surface should be damaged then this part should be replaced with a new one. Do not use any pointed instrument or metal tool to remove O-rings.*

1. Using a flat screwdriver, lift the two clips of the deflector (127825) then remove it manually.

2. Using 2 11/16 spanners hold the screw (127819) and unscrew the swivel nut on the hose. Remove the O-ring from the hose nipple. Take care to avoid damaging the seal groove. Remove the O-ring from the hose threads.

3. Pull back the hose protectors and check that there are no dents in the crimped sleeve. The hose should not move in the metal sleeve. If it does, it should be replaced.

4. Remove the clip (129154) and pull off the mouthpiece (123697 or 123698 or 127826).

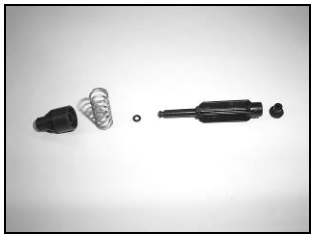
5. Unscrew the outer crown (127843). Take off the cover (127836 or 127838 or 127848).

6. Using the tool (129198), unscrew the diaphragm nut (127814 or 127832). Remove the washer (127815) and the diaphragm (127816).

7. Using the 11/16” spanner, unscrew the nut (127818).

8. Push slightly the valve spindle (127817). Unscrew the valve spindle screw (127819) from the valve spindle.

9. Turn over the 2nd stage and recover the shuttle-valve assembly (AP2036), spring (AP2021) and counter-balance chamber (127607). Remove the O-ring (AP2041) and the valve seat (AP2034).



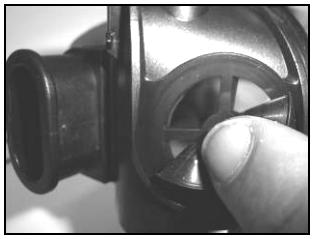
10. Take out the valve spindle (127817) manually, Recover the O-ring (473056)

11. Using a 3mm Allen key, unscrew the plug (127824 or 127833 or 127846). Remove the adjusting knob (127821).

12. Unscrew the cam (127822) from the valve spindle screw (127819). Using a 3mm Allen key, unscrew the adjusting screw (127823) from the cam (127822). Remove the O-rings (121130, 213716 and 124707).

13. Using a screwdriver (111399) unscrew the seat (AP2033). Push the tool (116236) inside the insert and push the seat out. Remove the O-ring (444243).

14. Left up the edge of the exhaust valve and check that the surface is clean and free from any scratches. It should be flexible and have a clean contour. If it is in good condition it is not necessary to remove it and it can be reused. If it shows any signs of deterioration it should be removed.

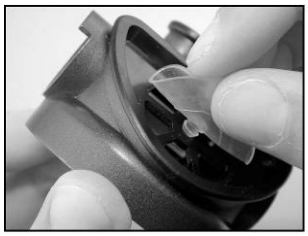


END OF DISASSEMBLY

Before starting to re-assemble the regulator, make sure that all replacement parts have been cleaned and lubricated in accordance with *Procedure A : Cleaning and Lubricating* on page 13.

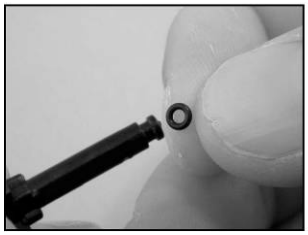
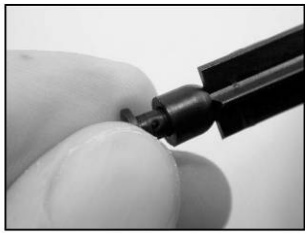
RE-ASSEMBLY PROCEDURE

1. If the exhaust valve has been removed, pass the valve tail through the hole in the casing (from the outside) and pull the tail lightly into the casing. If it is a new valve, cut off any excess length leaving about 5mm.



2. Fit the deflector and check that the 2 clips are in the right position.

3. Fit a new lubricated O-ring (AP2041) on the shuttle valve (AP2036). Fit the valve seat (AP2034). Lubricate the O-ring (AP2041) correctly.

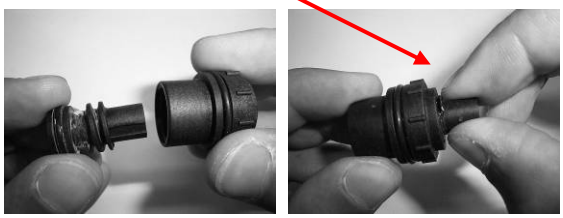



4. Fit the spring (AP2021) then the counter balance chamber (127607) on the shuttle valve.

5. Maintain the lever in the upper position. Fit the assembly (shuttle valve – spring – counter balance chamber) into the valve spindle taking care to position the tabs of the shuttle valve facing the tabs on the lever.

6. Fit a new lubricated O-ring (124707) on the adjusting screw (127823).
Screw totally the adjusting screw (127823) into the cam (127822) then come back one turn and 3/4 turn.

7. Fit a new lubricated O-ring (213716) on the cam (127822). Screw totally the cam (127822) into the valve spindle screw (127819) **until its stop** (the thread must be visible).



8. Fit a new lubricated O-ring (121130) on the valve spindle screw (127819).

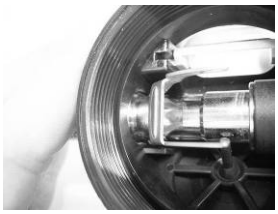
9. Screw of a single turn only the valve spindle screw (127819) on the valve spindle (127817).

10. Fit the assembly (valve spindle + adjusting mechanism) into the casing until the lever is completely inside the casing.

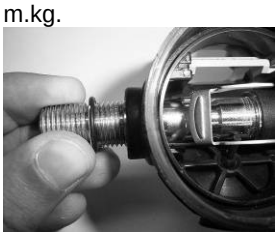
11. Maintain the lever in the upper position. Push slightly the assembly outside the casing, and screw the valve spindle screw **until its stop**.

12. Line up the spins of the screw with the seating of the casing by unscrewing the valve spindle screw. Looking at the case as the pictures, the two upper spins and the lever must be on both sides of a vertical plan.

13. Re-fit completely the assembly into the casing.



14. Fit a new lubricated O-ring (124706) on the valve spindle, then screw and tight the screw (127818) to 0.3 m.kg.



15. Fit a new lubricated O-ring (444243) on the seat(AP2033). Fit the seat (threaded part first) into the insert and push it fully home using a screwdriver.

16. With the flat side of the casing at eye level, screw in the adjusting knob until the lever is about 4mm below the level of the casing edge. Now unscrew it until the lever just shows above the edge of the casing. Press on the lever and check that it returns to the high position (the sign that the shuttle valve is well positioned).

17. Fit new lubricated O-rings on the hose nipple and on the thread.

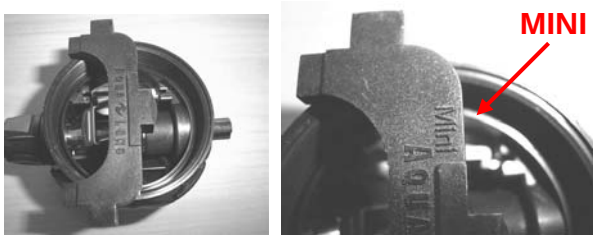
18. Ajustement du Levier (129178).

Attach the adjusting connector (122041) on the adjustment tool (122046). Connect a MP hose to the tool and then fit the assembly to a Mikron 1st stage that has its MP set to 9.5 bar. Put the regulator under pressure.

Slide the tool (129001) across the top of the casing.
With the tool in MINI position:
- the 2nd stage MUST NOT leak
- the tool MUST NOT press on the lever
- the tool MUST flush the lever

Screw the seat in or out to adjust the setting.

The tool (129001) in its MAXI position MUST NOT BE USED TO ADJUST THE MIKRON SECOND STAGE.



19. Close the air supply and purge the 2nd stage. Remove the adjustment tool. Fit the diaphragm (127816). Press well in all around its edges to ensure that it is correctly positioned. Fit the washer (127815) and then using the lug spanner (129198) screw in the diaphragm nut (127814 or 127832).

20. After tightening the diaphragm washer, check the diaphragm is well positioned by pulling on several directions. Check the diaphragm is not stuck, if not refit it.

21. Engage the front cover (127836 or 127838 or 127848) in the ring cover (127843), and then screw it on the case. Using a lug spanner (129198) screw the ring cover (127843) until its stop.

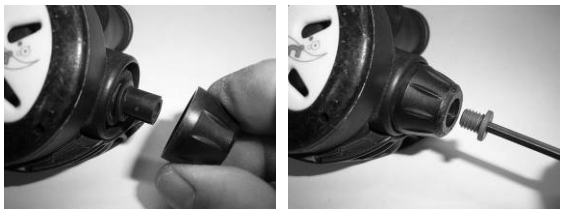
22. Using a 11/16" spanner, maintain the nut (127818) and then tight the hose nut to 0.3m.kg.

Note**: if you have a test bench, carry out these tests before fitting the mouthpiece and the knob with its plug. Test instructions are given in the section **Final Checks.

23. Fit the mouthpiece (123697 or 123698 or 127826) on to the casing. If it is a Comfobite mouthpiece check that the support is at the top. Fit the mouthpiece collar (129154) into the groove provided. The collar lever should be underneath and positioned on the hose side.

24. Fit the adjusting knob (127821)

25. Maintain the knob (127821) in the MAXI POSITION and tighten the plug (127824 or 127833 or 127846) to **0.5 N.m** using a dynamometer screwdriver (equipped with a 3mm Allen key).



NOTE: The Cam 127822 must be unscrewed completely until its stop to be able to tight correctly the Plug 127824 or 127833 or 127846.

NOTE: The adjusting knob 127821 must be maintained when tightening the Plugs (127824 or 127833 or 127846).

FINAL CHECKS

1. Pressurise the regulator to 200 bar (±10 bar)

***Note**: Tests 2,3 et 4 require the use of a regulator test bench.*

2. ***Check opening effort***. Apply a gradual inhalation effort. When the MP starts to fall, release the pressure and compare the result with the limits shown in Table ***5. Checking Specifications***. If the opening effort is outside these limits consult ***Table 1. Troubleshooting Guide.***
   If the adjusting screw 127823 is not correctly adjusted, unscrew it until its stop and then screw it to one turn and 3/4 turn. You have the possibility to screw and unscrew of +/- 1/2 turn from this position to get the suitable cracking effort.

3. ***Check depression / flow***. Apply an inhalation flow of 400 l/min and check that the depression does not exceed 15 mbar. If it exceeds this value consult ***Table 1. Troubleshooting Guide.***

4. ***Check for leaks***. Connect the first stage to a cylinder charged to 200 bar, open the valve and submerge the assembly in a bath of water for 1 minute. Check that there are no leaks. If there are apparent leaks, disassemble the 2nd stage completely and check all sealing surfaces and the positioning of the parts.

END OF REASSEMBLY

Table 1. Troubleshooting Guide

SYMPTOM	POSSIBLE CAUSE	TREATMENT
Leak or free flow at 2nd stage	1. MP too high	1. Refer to First stage Troubleshooting Guide
	2. The valve (AP2034) is worn or damaged.	2. Replace the valve
	3. The seat (AP2033) is not correctly adjusted	3. Readjust the seat
	4. The lever (127828) is bent	4. Replace the lever
	5. The sealing face of the seat (AP2033) is damaged.	5. Replace the seat
	6. The spring (AP2021) is damaged	6. Replace the spring
Insufficient purge flow or work of breathing too high	1. MP too low	1. Refer to First stage Troubleshooting Guide
	2. The adjusting screw 127823 is not correctly adjusted	2.Readjust the adjusting screw
	3. The valve (AP2033) is not correctly adjusted, the lever adjustment is too low	3. Readjust the lever and the valve
	4. MP hose obstructed	4. Clean or replace the hose
	5. The lever (127828) is bent	5. Replace the lever
Water leak	1. Hole in mouthpiece (123697)	1. Replace the mouthpiece
	2. Diaphragm (129150) damaged	2. Replace the diaphragm
	3. Exhalation valve (129174) damaged	3. Replace the valve
	4. The cam O-ring (473057) is dirty, worn or damaged	4. Replace the O-ring
	5. 5. The diaphragm is not correctly fitted between the casing and the washer (127815)	5. Disassemble the purge button and refit the assembly correctly
	6. The casing is damaged.	6. Check the sealing face of the exhalation valve. Replace the casing
	7. The O-rings (127707 and/or 121130) are damaged.	7. Replace the O-ring
	8. The insert O-ring (124706) is damaged.	8. Replace the O-ring

Table 2. List of Tools and Service Kits

REF	DESCRIPTION	APPLICATION	US PART NO.
116222	MP pressure gauge complete 0/16B	Checking medium pressure	111610
N/C	O-ring tool	Fitting and removing O-rings	944022
116236	Seat fitting tool	Seat assembly/disassembly	109436
129198	Ring tool	Tighten/loosen diaphragm washer and ring cover on Mikron	N/a
122046 + 122041	Seat adjustment tool	Adjusting seat under pressure	100190
122155	Torque wrench 0.5 m.kg	Plugs	N/a
129001	Lever adjustment tool	Adjust the height of the lever	129001
N/C	Medium flat wrench	seat	N/a
N/C	Flat wrench 17mm (x2)	Hose nut	N/a
N/C	4mm Allen key	MP et HP plugs	N/a
N/C	3mm Allen key	Adjusting screw and plug	N/a

127863	**Mikron 2nd stage Service Kit**	**Mikron 2nd stage**	

OUTIL DE MONTAGE 116236
AXE DEMONTAGE HP 116230
OUTIL DE REGLAGE ARCTIC 122046
RACCORD REGLAGE BP MICRA 122041
CLE A ERGOTS 129198
OUTIL BP LX 129001

Table 3. Recommended cleaners and lubricants

LUBRICANT / CLEANER	APPLICATION	SOURCE
Christolube MCG 111	All O-rings	Aqua Lung, ref. 480025
	***Attention**: Silicone parts do not require lubrication. Do not grease them. Greasing silicone parts can change their molecular construction and cause premature degradation of the material.*	
Oakite #31	Acid bath for cleaning brass and stainless steel parts.	Oakite Products, Inc.
NETALU	Acid bath for cleaning brass and stainless steel parts.	Aqua Lung, ref. 455001
Diluted white vinegar	Acid bath for cleaning brass and stainless steel parts.	Household stores
	***Attention**: Do not use hydrochloric acid for cleaning parts. Hydrochloric acid, even when well diluted, attacks the coating of metal parts and leaves a corrosive deposit that damages plastic parts and O-rings.*	
Washing-up liquid (diluted with hot water)	Degreases brass and stainless steel parts; general cleaning of plastic and rubber parts.	Household stores
Disinfectant STERANIOS 2%	Disinfectant for all plastic and metal parts.	Aqua Lung ref : 382062

Procedure A
Cleaning and Lubricating
(All Aqua Lung Regulators)

Cleaning brass and stainless steel parts.

1. Pre-clean by soaking in NETALU diluted to 25%.
2. Cleaning in an ultra-sonic bath filled with a mixture of washing-up liquid + hot water. If some resistant deposits remain then fill the ultrasonic bath with white vinegar and repeat. DO NOT put plastic, rubber, silicone or anodised aluminium parts in contact with vinegar.
3. Rinse in demineralised or fresh water to avoid calcium deposits. Soak for 10 minutes. Dry with filtered low pressure air and then check that their condition is now suitable for re-use.

Cleaning plastic, rubber and anodised aluminium parts.

For anodised aluminium parts : soak in a « NETALU diluted to 25% ». Rinse in fresh water and dry with low-pressure filtered air.
For plastic parts. (casings, plugs..) : clean in an ultrasonic bath containing a mixture of washing-up liquid and hot water. Use only a toothbrush with nylon bristles to remove any deposits. Rinse in fresh water and dry with low-pressure filtered air

***Attention**: D not place plastic and rubber parts in contact with acid solutions. This could alter their physical properties and cause degradation and premature breakdown.*

Disinfecting parts .

For disinfection, leave plastic and metal parts to soak for 20 minutes in a bath of STERANIOS 2% ref. 382062 (ready to use). Rinse the parts thoroughly after soaking. Toxic product, follow the instruction for its use.

Cleaning parts for Nitrox/O2 use.

1. Metal parts : Pre-clean by soaking in NETALU diluted to 25%.
2. Ultrasonic cleaning in Promoclean TP108 diluted at 5% .
3. Rinse in demineralised water. Soak for 10 min.
4. Dry in the open air in a clean and dust-free atmosphere. Place the parts on a white cloth, allow to dry and check after drying that the cloth shows no grease deposits and that the condition of the parts is appropriate for re-use with Nitrox/O2.

Cleaning hoses.

If there is significant corrosion then it is permissible to soak only the ends in an ultrasonic bath, avoiding any possibility of the solution entering the hose. Rinse in fresh water and allow to dry with the connections hanging down. Dry the inside with filtered compressed air before reconnecting the hose to the regulator.

Wiping.

To wipe parts, use a white filter paper, a pure cotton cloth or any other material that **does not produce fluff.**

Inspection.

Visually check under a white light (day light or artificial light).
The parts are completely free of any traces of :

1. organic materials (oil, grease, paint, rust…)
2. cleaning agents
3. dust
4. humidity

Lubrication.

When handling O-rings wear unpowdered latex gloves. It is important not to allow contact between the internal components and the skin or any other source of contamination when the regulator is being prepared for Nitrox use. All seals should be lubricated with Christolube MCG111. Cover the seals with a light film of grease and remove any excess by rolling the seal between finger and thumb. Do not use an excess of grease; this can have the effect of accumulating particles that could damage the O-rings.

Table 4. Torque values

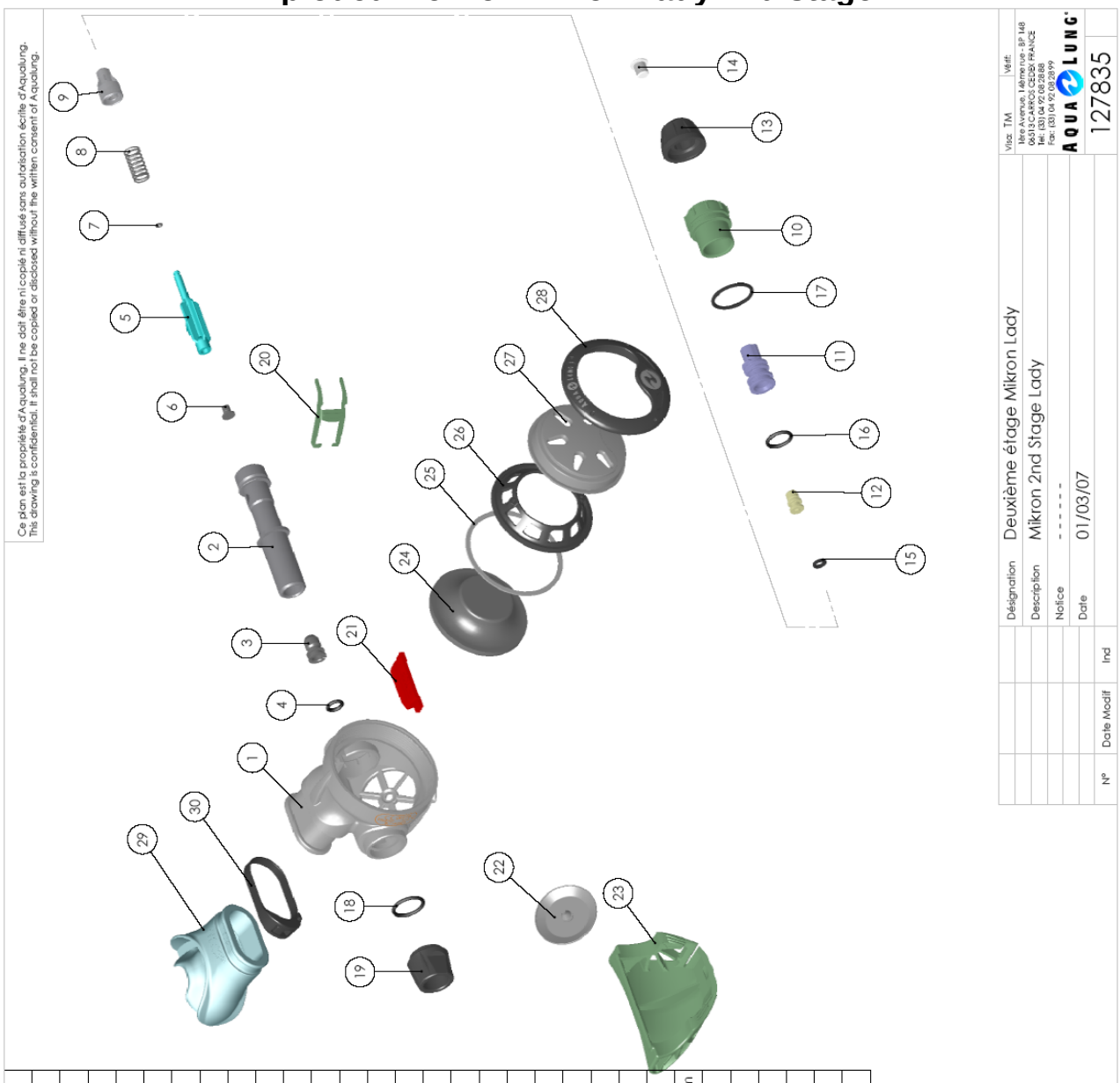
N° REFERENCE	DESCRIPTION	FORCE
127818	Insert screw	3 N.m
129861	Hose Nut	3 N.m
127824, 127833 and 127846	Plug	0.5 N.m

Table 5. Checking specifications

TEST	INSTRUCTIONS	SPECIFICATIONS
Leak Test	160 bar < Working pressure < 200 bar	No leak
Medium Pressure	160 bar < Working pressure < 200 bar	**MP at 9.5 bar ± 0.5 bar**
Opening effort	160 bar < Working pressure < 200 bar	Mikron : between **2.8 mbar** and **3.8 mbar**
Effort / Flow	**MP at 9.5 bar ± 0.5 bar**	15 mbar maxi at 400 L/min

Maintenance Notes.

Exploded view of Mikron Lady 2nd stage.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This drawing is confidential. It shall not be copied or disclosed without the written consent of Aqualung.
Désignation Deuxième étage Mikron Lady
Description Mikron 2nd Stage Lady
Notice - - - - - -
Date 01/03/07
N° Date Modif Ind
Visa: TM Vérif:
AQUALUNG
127835

No	Réf	Qté	Désignation	Description
1	127842	1	Boitier Mikron marqué	Mikron Case w/ laser marking
2	127817	1	Insert BP Mikron	Mikron Valve Spindle
3	ap2033	1	Siège réglable	Brass Valve Seat
4	444243	1	*JT 1.78x6.07 EPDM 80ShA*	*OR 1.78x6.07 EPDM 80ShA*
5	AP2036	1	Porte-clapet compensé	Shuttle valve
6	ap2034	1	*Clapet*	*Rubber Valve Seat*
7	AP2041	1	*Bague*	*O-ring*
8	ap2021	1	Ressort	Valve spring
9	127607	1	Chambre de compensation Kronos	kronos Counter balance chamber
10	127819	1	Vis insert Mikron	Mikron Valve Spindle Screw
11	127822	1	Rampe de réglage Mikron	Mikron Cam
12	127823	1	Vis de réglage Mikron	Mikron Adjusting Screw
13	127821	1	Volant de réglage Mikron	Mikron Adjusting Knob
14	127833	1	Bouchon Mikron Blanc	Mikron White Plug
15	124707	1	*Joint torique*	*O-ring*
16	213716	1	*JT 1.78x10.82 EPDM 80ShA*	*OR 1.78x10.82 EPDM 80ShA*
17	121130	1	*JT 1.78x18.77 EPDM 80 ShA*	*OR 1.78x18.77 EPDM 80 ShA*
18	124706	1	*JT 1.78 x 14 EPDM 80ShA*	*OR 1.78 x 14 EPDM 80ShA*
19	127818	1	écrou insert Mikron	Mikron insert screw
20	127828	1	Levier Mikron	Mikron Lever
21	127827	1	Baffle Mikron	Mikron Baffle
22	129174	1	Soupape d'expiration	exhaust valve
23	127825	1	Déflecteur Mikron	Mikron Exhaust Tee
24	127816	1	Membrane BP Mikron	Mikron Second stage diaphragm
25	127815	1	Rondelle membrane Mikron	Mikron diaphragm washer
26	127814	1	Verrou de membrane Mikron	Mikron Diaphragm retainer
27	127838	1	Poussoir Mikron Lady marqué	Mikron Lady Front Cover w/ marking
28	127843	1	couronne extérieure marquée Mikron	Mikron ring cover w/ marking
29	127826	1	Petit embout buccal Comfobite	Small Comfobite mouthpiece
30	129154	1	Clip	Mouthpiece wrap

Tous les composants en italiques/gras sont inclus dans le kit d'entretien
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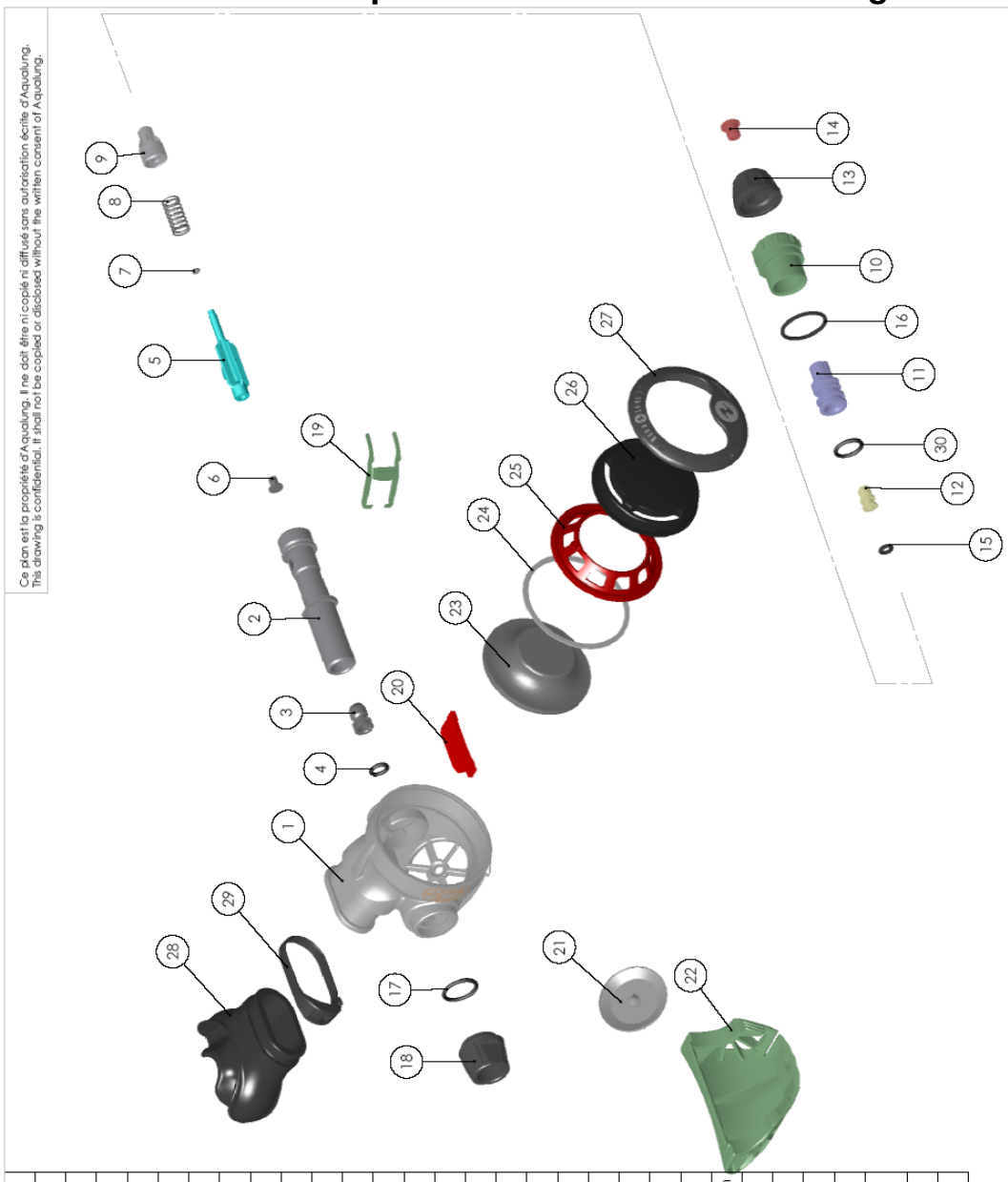
Exploded view of Mikron 2nd Stage



No	Réf	Qté	Désignation	Description
1	127842	1	Boitier Mikron marqué	Mikron Case w/ laser marking
2	127817	1	Insert BP Mikron	Mikron Valve Spindle
3	ap2033	1	Siège réglable	Brass Valve Seat
4	***444243***	**1**	***JT 1.78x6.07 EPDM 80ShA***	***OR 1.78x6.07 EPDM 80ShA***
5	AP2036	1	Porte-clapet compensé	Shuttle valve
6	***ap2034***	**1**	***Clapet***	***Rubber Valve Seat***
7	***AP2041***	**1**	***Bague***	***O-ring***
8	ap2021	1	Ressort	Valve spring
9	127607	1	Chambre de compensation Kronos	kronos Counter balance chamber
10	127819	1	Vis insert Mikron	Mikron Valve Spindle Screw
11	127822	1	Rampe de réglage Mikron	Mikron Cam
12	127823	1	Vis de réglage Mikron	Mikron Adjusting Screw
13	127821	1	Volant de réglage Mikron	Mikron Adjusting Knob
14	127824	1	Bouchon Mikron Rouge	Mikron Red Plug
15	***124707***	**1**	***Joint torique***	***O-ring***
16	***121130***	**1**	***JT 1.78x18.77 EPDM 80 ShA***	***OR 1.78x18.77 EPDM 80 ShA***
17	***124706***	**1**	***JT 1.78 x 14 EPDM 80ShA***	***OR 1.78 x 14 EPDM 80ShA***
18	127818	1	écrou insert Mikron	Mikron insert screw
19	127828	1	Levier Mikron	Mikron Lever
20	127827	1	Baffle Mikron	Mikron Baffle
21	129174	1	Soupape d'expiration	exhaust valve
22	127825	1	Déflecteur Mikron	Mikron Exhaust Tee
23	127816	1	Membrane BP Mikron	Mikron Second stage diaphragm
24	127815	1	Rondelle membrane Mikron	Mikron diaphragm washer
25	127832	1	Verrou de membrane Mikron Rouge	Mikron Red Diaphragm retainer
26	127836	1	Poussoir marqué Mikron	Mikron Front Cover w/ marking
27	127843	1	couronne extérieure marquée Mikron	Mikron ring cover w/ marking
28	123697	1	Embout confobite	Comfobite mouthpiece
29	129154	1	Clip	Mouthpiece wrap
30	***213716***	**1**	***JT 1.78x10.82 EPDM 80ShA***	***OR 1.78x10.82 EPDM 80ShA***

Tous les composants en italiques/gras sont inclus dans le kit d'entretien
All items in bold italics are to be replaced when servicing

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Désignation	Deuxième étage Mikron
Description	Mikron 2nd Stage
Notice	- - - - - -
Date	01/03/07

Visa: TM — Visa:

Mer Avenue, Méditerranée - BP 149
06513 CARROS CEDEX FRANCE
Tel.: (33) 04 92 08 28 88
Fax: (33) 04 92 08 28 99

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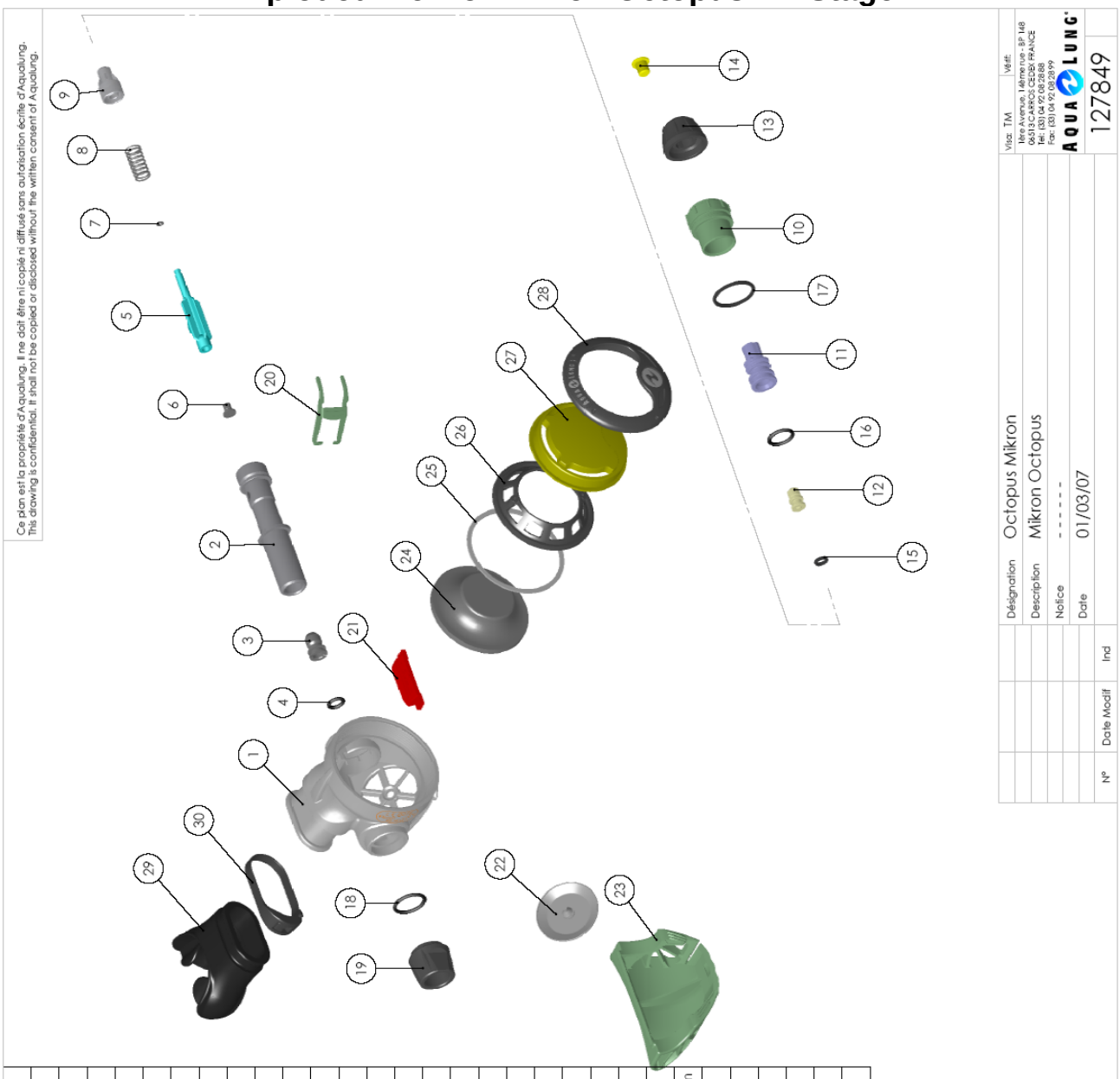
N°	Date Modif	Ind

Exploded view of Mikron Octopus 2nd Stage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Désignation Octopus Mikron
Description Mikron Octopus
Notice - - - - - -
Date 01/03/07
N° Date Modif Ind
Visa: TM Visa:
AQUALUNG
127849

No	Réf	Qté	Désignation	Description
1	127842	1	Boîtier Mikron marqué	Mikron Case w/ laser marking
2	127817	1	Insert BP Mikron	Mikron Valve Spindle
3	ap2033	1	Siège réglable	Brass Valve Seat
4	***444243***	**1**	***JT 1.78x6.07 EPDM 80ShA***	***OR 1.78x6.07 EPDM 80ShA***
5	AP2036	1	Porte-clapet compensé	Shuttle valve
6	***ap2034***	**1**	***Clapet***	***Rubber Valve Seat***
7	***AP2041***	**1**	***Bague***	***O-ring***
8	ap2021	1	Ressort	Valve spring
9	127607	1	Chambre de compensation Kronos	kronos Counter balance chamber
10	127819	1	Vis insert Mikron	Mikron Valve Spindle Screw
11	127822	1	Rampe de réglage Mikron	Mikron Cam
12	127823	1	Vis de réglage Mikron	Mikron Adjusting Screw
13	127821	1	Volant de réglage Mikron	Mikron Adjusting Knob
14	127846	1	Bouchon Mikron Jaune	Mikron Yellow Plug
15	***124707***	**1**	***Joint torique***	***O-ring***
16	***213716***	**1**	***JT 1.78x10.82 EPDM 80ShA***	***OR 1.78x10.82 EPDM 80ShA***
17	***121130***	**1**	***JT 1.78x18.77 EPDM 80 ShA***	***OR 1.78x18.77 EPDM 80 ShA***
18	***124706***	**1**	***JT 1.78 x 14 EPDM 80ShA***	***OR 1.78 x 14 EPDM 80ShA***
19	127818	1	écrou insert Mikron	Mikron insert screw
20	127828	1	Levier Mikron	Mikron Lever
21	127827	1	Baffle Mikron	Mikron Baffle
22	129174	1	Soupape d'expiration	exhaust valve
23	127825	1	Déflecteur Mikron	Mikron Exhaust Tee
24	127816	1	Membrane BP Mikron	Mikron Second stage diaphragm
25	127815	1	Rondelle membrane Mikron	Mikron diaphragm washer
26	127814	1	Verrou de membrane Mikron	Mikron Diaphragm retainer
27	127848	1	Poussoir Mikron Octopus marqué	Mikron Octopus Front Cover w/ marking
28	127843	1	couronne extérieure marquée Mikron	Mikron ring cover w/ marking
29	123698	1	Embout buccal octopus	Octopus mouthpiece
30	129154	1	Clip	Mouthpiece wrap

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